

LAND APPLICATION SITE

CLIFTON S CLAY

DWCSC 1-6

DINWIDDIE COUNTY

**VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION
FORM D: MUNICIPAL EFFLUENT AND BIOSOLIDS**

PART D-VI: LAND APPLICATION AGREEMENT - BIOSOLIDS AND INDUSTRIAL RESIDUALS

A. This land application agreement is made on 3/31/14 between Terry Clay referred to here as "Landowner", and Recyc Systems, Inc., referred to here as the "Permittee". This agreement remains in effect until it is terminated in writing by either party or, with respect to those parcels that are retained by the Landowner in the event of a sale of one or more parcels; until ownership of all parcels changes. If ownership of individual parcels identified in this agreement changes, those parcels for which ownership has changed will no longer be authorized to receive biosolids or industrial residuals under this agreement.

Landowner:

The Landowner is the owner of record of the real property located in Dinwiddie, Virginia, which includes the agricultural, silvicultural or reclamation sites identified below in Table 1 and identified on the tax map(s) attached as Exhibit A.

Table 1: Parcels authorized to receive biosolids, water treatment residuals or other industrial sludges			
Tax Parcel ID	Tax Parcel ID	Tax Parcel ID	Tax Parcel ID
42-1-1			
42-1-1A			

☐ Additional parcels containing Land Application Sites are identified on Supplement A (check if applicable)

Check one:

- ☐ The Landowner is the sole owner of the properties identified herein.
☒ The Landowner is one of multiple owners of the properties identified herein.

In the event that the Landowner sells or transfers all or part of the property to which biosolids have been applied within 38 months of the latest date of biosolids application, the Landowner shall:

1. Notify the purchaser or transferee of the applicable public access and crop management restrictions no later than the date of the property transfer; and
2. Notify the Permittee of the sale within two weeks following property transfer.

The Landowner has no other agreements for land application on the fields identified herein. The Landowner will notify the Permittee immediately if conditions change such that the fields are no longer available to the Permittee for application or any part of this agreement becomes invalid or the information herein contained becomes incorrect.

The Landowner hereby grants permission to the Permittee to land apply residuals as specified below, on the agricultural sites identified above and in Exhibit A. The Landowner also grants permission for DEQ staff to conduct inspections on the land identified above, before, during or after land application of permitted residuals for the purpose of determining compliance with regulatory requirements applicable to such application.

<u>Class B biosolids</u>	<u>Water treatment residuals</u>	<u>Food processing waste</u>	<u>Other industrial sludges</u>
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

<u>Jerry Clay</u>	<u>12600 Hills Drive</u>
Landowner - Printed Name, Title	Mailing Address & Phone Number
	<u>Dewitt, VA 23840</u>
	<u>804-722-0497</u>

Permittee:

Recyc Systems, Inc., the Permittee, agrees to apply biosolids and/or industrial residuals on the Landowner's land in the manner authorized by the VPA Permit Regulation and in amounts not to exceed the rates identified in the nutrient management plan prepared for each land application field by a person certified in accordance with \$10.1-104.2 of the Code of Virginia.

The Permittee agrees to notify the Landowner or the Landowner's designee of the proposed schedule for land application and specifically prior to any particular application to the Landowner's land. Notice shall include the source of residuals to be applied.

☐ I reviewed the document(s) assigning signatory authority to the person signing for landowner above. I will make a copy of this document(s) available to DEQ for review upon request. (Do not check this box if the landowner signs this agreement)

<u>[Signature]</u>	<u>[Signature]</u>	<u>PO Box 562 Remington, Virginia 22734</u>
Permittee - Authorized Representative	Signature	Mailing Address
Printed Name		

VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION: PART D-VI LAND APPLICATION AGREEMENT

Permittee: Recyc Systems, Inc County or City: Dinwiddie
Landowner: Jerry Clay

Landowner Site Management Requirements:

I, the Landowner, I have received a DEQ Biosolids Fact Sheet that includes information regarding regulations governing the land application of biosolids, the components of biosolids and proper handling and land application of biosolids.


I have also been expressly advised by the Permittee that the site management requirements and site access restrictions identified below must be complied with after biosolids have been applied on my property in order to protect public health, and that I am responsible for the implementation of these practices.

I agree to implement the following site management practices at each site under my ownership following the land application of biosolids at the site:

1. Notification Signs: I will not remove any signs posted by the Permittee for the purpose of identifying my field as a biosolids land application site, unless requested by the Permittee, until at least 30 days after land application at that site is completed.
2. Public Access
 - a. Public access to land with a high potential for public exposure shall be restricted for at least one year following any application of biosolids.
 - b. Public access to land with a low potential for public exposure shall be restricted for at least 30 days following any application of biosolids. No biosolids amended soil shall be excavated or removed from the site during this same period of time unless adequate provisions are made to prevent public exposure to soil, dusts or aerosols;
 - c. Turf grown on land where biosolids are applied shall not be harvested for one year after application of biosolids when the harvested turf is placed on either land with a high potential for public exposure or a lawn, unless otherwise specified by DEQ.
3. Crop Restrictions:
 - a. Food crops with harvested parts that touch the biosolids/soil mixture and are totally above the land surface shall not be harvested for 14 months after the application of biosolids.
 - b. Food crops with harvested parts below the surface of the land shall not be harvested for 20 months after the application of biosolids when the biosolids remain on the land surface for a time period of four (4) or more months prior to incorporation into the soil,
 - c. Food crops with harvested parts below the surface of the land shall not be harvested for 38 months when the biosolids remain on the land surface for a time period of less than four (4) months prior to incorporation.
 - d. Other food crops and fiber crops shall not be harvested for 30 days after the application of biosolids;
 - e. Feed crops shall not be harvested for 30 days after the application of biosolids (60 days if fed to lactating dairy animals).
4. Livestock Access Restrictions:

Following biosolids application to pasture or hayland sites:

 - a. Meat producing livestock shall not be grazed for 30 days,
 - b. Lactating dairy animals shall not be grazed for a minimum of 60 days.
 - c. Other animals shall be restricted from grazing for 30 days;
5. Supplemental commercial fertilizer or manure applications will be coordinated with the biosolids and industrial residuals applications such that the total crop needs for nutrients are not exceeded as identified in the nutrient management plan developed by a person certified in accordance with §10.1-104.2 of the Code of Virginia;
6. Tobacco, because it has been shown to accumulate cadmium, should not be grown on the Landowner's land for three years following the application of biosolids or industrial residuals which bear cadmium equal to or exceeding 0.45 pounds/acre (0.5 kilograms/hectare).


Landowner's Signature

2-3-14
Date


Farm Operator Signature

12207 Hills Drive
Dewitt, VA 23840
804-586-1457
Mailing Address & Phone Number

**VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION
FORM D: MUNICIPAL EFFLUENT AND BIOSOLIDS**

PART D-VI: LAND APPLICATION AGREEMENT - BIOSOLIDS AND INDUSTRIAL RESIDUALS

A. This land application agreement is made on 3-3-14 between Larry Clay referred to here as "Landowner", and Recyc Systems, Inc, referred to here as the "Permittee". This agreement remains in effect until it is terminated in writing by either party or, with respect to those parcels that are retained by the Landowner in the event of a sale of one or more parcels, until ownership of all parcels changes. If ownership of individual parcels identified in this agreement changes, those parcels for which ownership has changed will no longer be authorized to receive biosolids or industrial residuals under this agreement.

Landowner:

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<u>42-1-1</u>			
<u>42-1-1A</u>			

☐ Additional parcels containing Land Application Sites are identified on Supplement A (check if applicable)

Check one:

- ☐ The Landowner is the sole owner of the properties identified herein.
☒ The Landowner is one of multiple owners of the properties identified herein.

In the event that the Landowner sells or transfers all or part of the property to which biosolids have been applied within 38 months of the latest date of biosolids application, the Landowner shall:

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<u>Class B biosolids</u>	<u>Water treatment residuals</u>	<u>Food processing waste</u>	<u>Other industrial sludges</u>
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

<u>Larry E. Clay</u>	<u>Larry E. Clay</u>	<u>12600 Hills Drive</u>
Landowner - Printed Name, Title	Signature	Mailing Address & Phone Number
		<u>DEWitt, VA 23840</u>
		<u>804-722-6447</u>

Permittee:

Recyc Systems, Inc., the Permittee, agrees to apply biosolids and/or industrial residuals on the Landowner's land in the manner authorized by the VPA Permit Regulation and in amounts not to exceed the rates identified in the nutrient management plan prepared for each land application field by a person certified in accordance with §10.1-104.2 of the Code of Virginia.

The Permittee agrees to notify the Landowner or the Landowner's designee of the proposed schedule for land application and specifically prior to any particular application to the Landowner's land. Notice shall include the source of residuals to be applied.

☐ I reviewed the document(s) assigning signatory authority to the person signing for landowner above. I will make a copy of this document(s) available to DEQ for review upon request. (Do not check this box if the landowner signs this agreement)

<u>STumbo</u>	<u>STumbo</u>	<u>PO Box 562 Remington, Virginia 22734</u>
Permittee - Authorized Representative	Signature	Mailing Address
Printed Name		

VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION: PART D-VI LAND APPLICATION AGREEMENT

Permittee: Recyc Systems, Inc

County or City: Dinwiddie

Landowner: Larry Clay

Landowner Site Management Requirements:

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6. Tobacco, because it has been shown to accumulate cadmium, should not be grown on the Landowner's land for three years following the application of biosolids or industrial residuals which bear cadmium equal to or exceeding 0.45 pounds/acre (0.5 kilograms/hectare).

Larry E. Clay
Landowner's Signature

3-3-14
Date

Larry Clay
Farm Operator Signature

12207 Hills Drive
Dewitt, VA 23840
804-586-1457

Mailing Address & Phone Number

Landowner Coordination Form

Signature not required on this page

[illegible]

NEW FIELD CHANGES

CLIFTON S. CLAY

DINWIDDIE COUNTY

NEW FIELD 1 IS OLD FIELD OLD FIELDS 1 AND 2.

NEW FIELD 2 IS OLD FIELD 4.

NEW FIELD 3 IS OLD FIELD 3.

NEW FIELD 4 IS PART OF OLD FIELD 5.

NEW FIELD 5 IS PART OF OLD FIELD 5.

NEW FIELD 6 IS OLD FIELD 6.

FARM DATA SHEET

SITE NAME:	Clifton S. Clay	COUNTY:	Dinwiddie
OWNER:	Larry E. and Jerry W. Clay	OPERATOR:	Louis Clay
OWNER'S ADDRESS:	12600 Hills Drive Dewitt, VA 23840	OPERATOR'S ADDRESS:	12207 Hills Drive Dewitt, VA 23840
OWNER'S TELEPHONE:	804-722-0497	OPERATOR'S TELEPHONE:	804-265-7390
GENERAL FARM TYPE:	Row Crop/Hay/Pasture	CELL PHONE:	804-586-1457
# CATTLE:	75	EMAIL:	-
LAGOON or SLURRY:	None	LATITUDE:	37.096
TOPO QUAD:	Dewitt	LONGITUDE:	-77.684
COMMENTS:	METHOD OF DETERMINATION:		Online Maps

BB 7-1-20

RECYC SYSTEMS, INC

FIELD DATA SHEET

Field Identification	Gross Acres	Environmentally Sensitive Soils				Hydro Map	Tax Map #	FSA Tract #
		Water Table	Bed Rock/ Shallow	Surf/ Leach	Freq Flood			
DWCSC 1	26.4	-	-	-	-	CU 21	42-1-1	T 2417 F 11
DWCSC 2N	16.6	-	-	-	-	CU 21	42-1-1	T 2417 F 9
DWCSC 3	20.7	-	-	-	-	CU 21	42-1-1	T 2417 F 8
DWCSC 4N	10.6	-	-	-	-	CU 21	42-1-1A	T 2417 F 6
DWCSC 5	6.9	-	-	-	-	CU 21	42-1-1A	T 2417 F 4
DWCSC 6	26.1	-	-	-	-	CU 21	42-1-1A	T 2417 F 5
TOTAL ACRES IN SITE	107.3							

3-2-21

THE PLANNER IS NOT STATE CERTIFIED

Nutrient Management Plan Balance Sheet
(Fall, 2020-Winter, 2022)
Clifton S. Clay
Planner: John Doe

Tract: 2417

Location: Dinwiddie

(N = N based, 1P = P based, 1.5P = P based at 1.5 removal, 0P = No P allowed)

Field CFSA No. /Name	Size (ac) Total/ Used	Yr.	Crop	Needs N-P-K (lbs/ac)	Leg /Man Resid	Manure/Biosld Rate & Type (season)	IT (d)	Man/Bios N-P-K (lbs/ac)	Net = Needs - appld N-P-K (lbs/ac)	Sum P rem cred	Commercial N-P-K (lbs/ac)	Notes	
11/DWCSC 1(N)	26/26	2020 2021	Wheat (grain)	100-60-60 --- --	0/0				100-60-60	N/A			
9/DWCSC 2(N)	17/17	2020	Grass Pasture	50-80-80	0/0				50-80-80	N/A			
8/DWCSC 3(N)	21/21	2020	Wheat (grain)	100-60-60	0/0				100-60-60	N/A			
		2021	---	---									
6/DWCSC 4(N)	11/11	2020	Hay/Pasture	100-50-95	0/0				100-50-95	N/A			
4/DWCSC 5(N)	7/7	2020	Hay/Pasture	100-50-95	0/0				100-50-95	N/A			
5/DWCSC 6(N)	26/26	2020	Hay/Pasture	100-50-95	0/0				100-50-95	N/A			

Commercial Application Methods:

br - Broadcast ba - Banded sd - Sidedress

Notes:

Soil Test Summary

Tract	Field	Acre	Date	P2O5	K2O	Lab	Soil pH	Lime Date	rec. lime tons/Ac
2417	DWCSC 1	26	[No Test]						
2417	DWCSC 2	17	[No Test]						
2417	DWCSC 3	21	[No Test]						
2417	DWCSC 4	11	[No Test]						
2417	DWCSC 5	7	[No Test]						
2417	DWCSC 6	26	[No Test]						

Field Productivities for Major Crops

Tract Name	Tract/ Field	Field Name	Acres	Predominant Soil Series	Corn	Small Grain	Alfalfa	Grass Hay	Environmental Warnings
2417	2417/11	DWCSC 1	26	Georgeville	IVa	II	III	II	
	2417/9	DWCSC 2	17	Georgeville	IVa	II	III	II	
	2417/8	DWCSC 3	21	Georgeville	IVa	II	III	III	
	2417/6	DWCSC 4	11	Herndon	IVa	II	III	III	
	2417/4	DWCSC 5	7	Herndon	IVa	II	III	III	
	2417/5	DWCSC 6	26	Herndon	IVa	II	III	III	

Yield Range

Field Productivity Group	Corn Grain Bu/Acre	Barley/Intensive Wheat Bu/Acre	Std. Wheat Bu/Acre	Alfalfa Tons/Acre	Grass/Hay Tons/Acre
I	>170	>80	>64	>6	>4.0
II	150-170	70-80	56-64	4-6	3.5-4.0
III	130-150	60-70	48-56	<4	3.0-3.5
IV	100-130	50-60	40-48	NA	<3.0
V	<100	<50	<40	NA	NA

Farm Summary Report

Plan: **New Plan** **Fall, 2020 - Winter, 2022**

Farm Name: **Clifton S. Clay**

Location: Dinwiddie

Specialist: John Doe

N-based Acres: 107.3

P-based Acres: 0.0

Tract Name: **2417**

FSA Number: 2417

Location: Dinwiddie

Field Name: **DWCSC 1**

Total Acres: 26.40 Usable Acres: 26.40

FSA Number: 11

Tract: 2417

Location: Dinwiddie

Slope Class: B Hydrologic Group: B

Riparian buffer width: 0 ft

Distance to stream: 0 ft

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE	PH	P	K	Lab
[NO TEST]				

Soils:

PERCENT	SYMBOL	SOIL SERIES
22	10C	Herndon
78	8B	Georgeville

Field Warnings:

Field Name: DWCS 2

Total Acres: 16.60 Usable Acres: 16.60

FSA Number: 9

Tract: 2417

Location: Dinwiddie

Slope Class: B Hydrologic Group: B

Riparian buffer width: 0 ft

Distance to stream: 0 ft

Conservation Practices:

Pasture (>75% cover)

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE	PH	P	K	Lab
[NO TEST]				

Soils:

PERCENT	SYMBOL	SOIL SERIES
68	8B	Georgeville
32	10C	Herndon

Field Warnings:

Field Name: DWCS 3

Total Acres: 20.70 Usable Acres: 20.70

FSA Number: 8

Tract: 2417

Location: Dinwiddie

Slope Class: B Hydrologic Group: B

Riparian buffer width: 0 ft
Distance to stream: 0 ft

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE	PH	P	K	Lab
[NO TEST]				

Soils:

PERCENT	SYMBOL	SOIL SERIES
31	10C	Herndon
13	10B	Herndon
55	8B	Georgeville

Field Warnings:

Field Name: DWCS4

Total Acres: 10.60 Usable Acres: 10.60

FSA Number: 6

Tract: 2417

Location: Dinwiddie

Slope Class: C Hydrologic Group: B

Riparian buffer width: 0 ft
Distance to stream: 0 ft

Conservation Practices:

Pasture (>75% cover)

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE	PH	P	K	Lab
------	----	---	---	-----

[NO TEST]

Soils:

PERCENT	SYMBOL	SOIL SERIES
42	8B	Georgeville
58	10C	Herndon

Field Warnings:

Field Name: DWCS C 5

Total Acres: 6.90 Usable Acres: 6.90

FSA Number: 4

Tract: 2417

Location: Dinwiddie

Slope Class: C Hydrologic Group: B

Riparian buffer width: 0 ft

Distance to stream: 0 ft

Conservation Practices:

Pasture (>75% cover)

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE	PH	P	K	Lab
[NO TEST]				

Soils:

PERCENT	SYMBOL	SOIL SERIES
58	10C	Herndon
42	8B	Georgeville

Field Warnings:

Field Name: DWCS6

Total Acres: 26.10 Usable Acres: 26.10

FSA Number: 5

Tract: 2417

Location: Dinwiddie

Slope Class: B Hydrologic Group: B

Riparian buffer width: 0 ft

Distance to stream: 0 ft

Conservation Practices:

Pasture (>75% cover)

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE	PH	P	K	Lab
[NO TEST]				

Soils:

PERCENT	SYMBOL	SOIL SERIES
73	10B	Herndon
27	10C	Herndon

Field Warnings:

MAPS

(Biosolids Land Application)



DWCSC 1-6

7-1-20

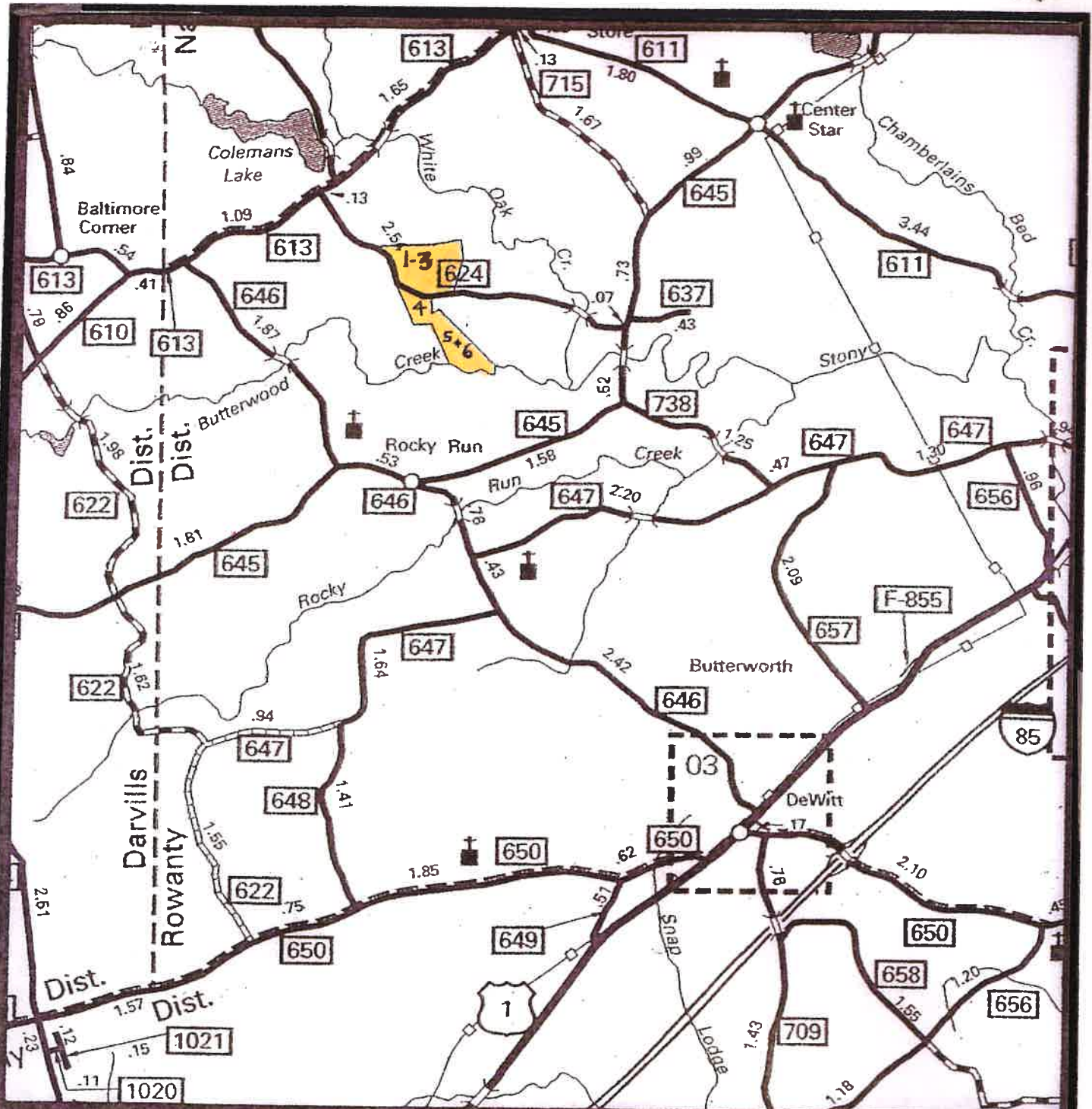
Truck Route
Marked in
Yellow

VICINITY MAP



Recyc SystemsTM Inc.

(Biosolids Land Application)



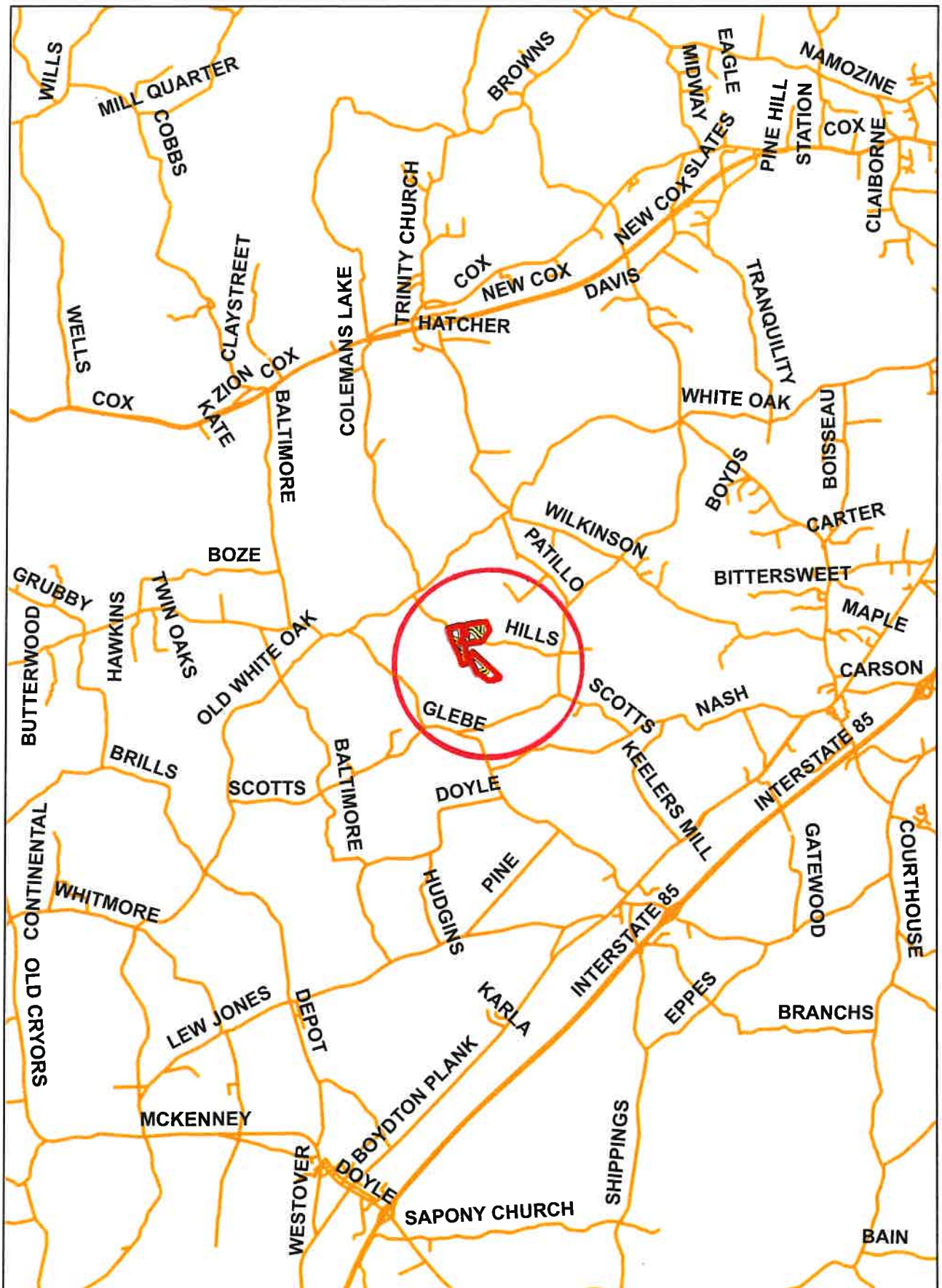
Scale: 1 inch = 1 mile

DWCSC 1-6

7-1-20
Truck Route
Marked in
Yellow

VICINITY MAP

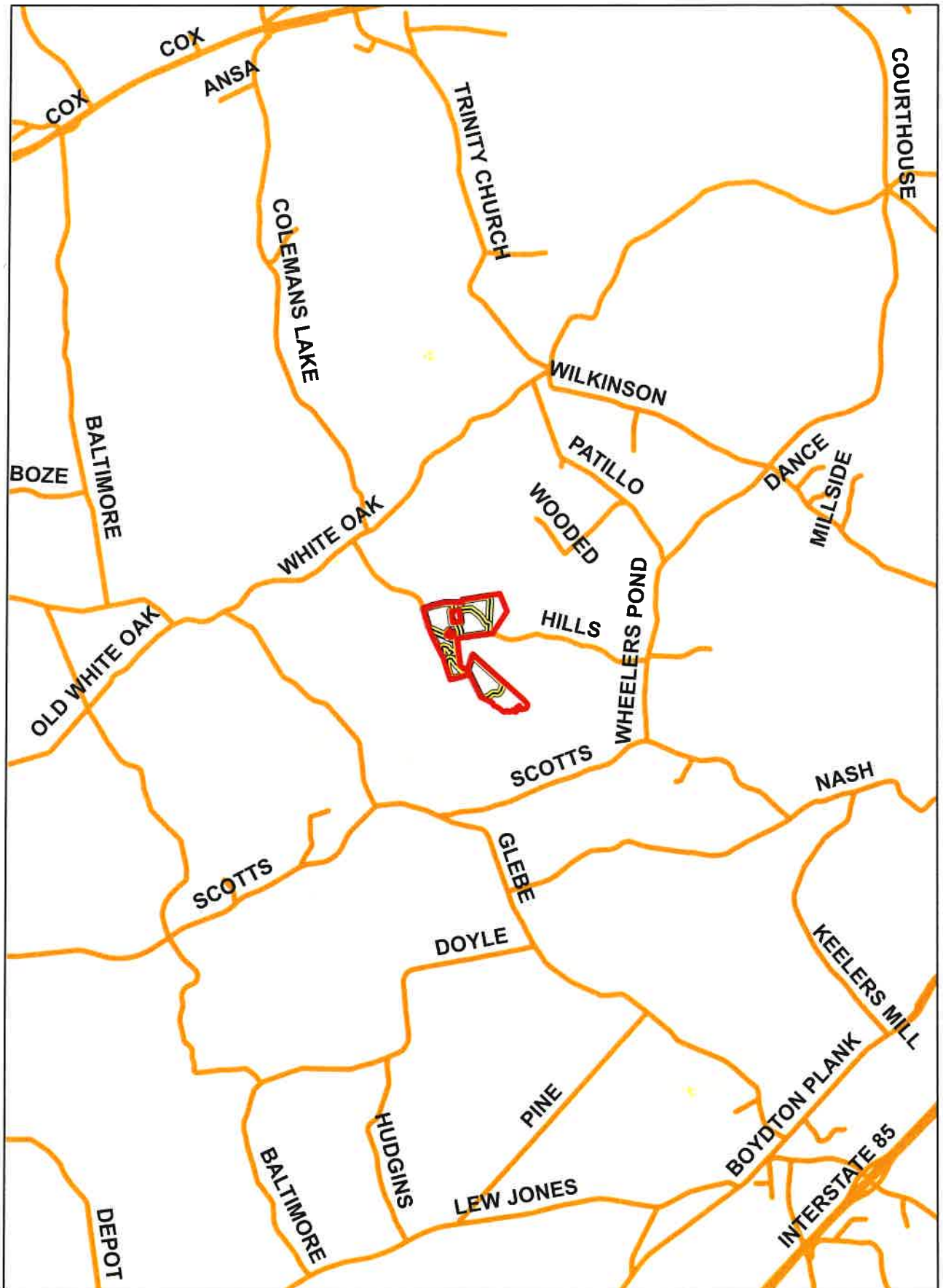




7-1-20

Vicinity Map

1 in = 2 miles



7-1-20

Vicinity Map

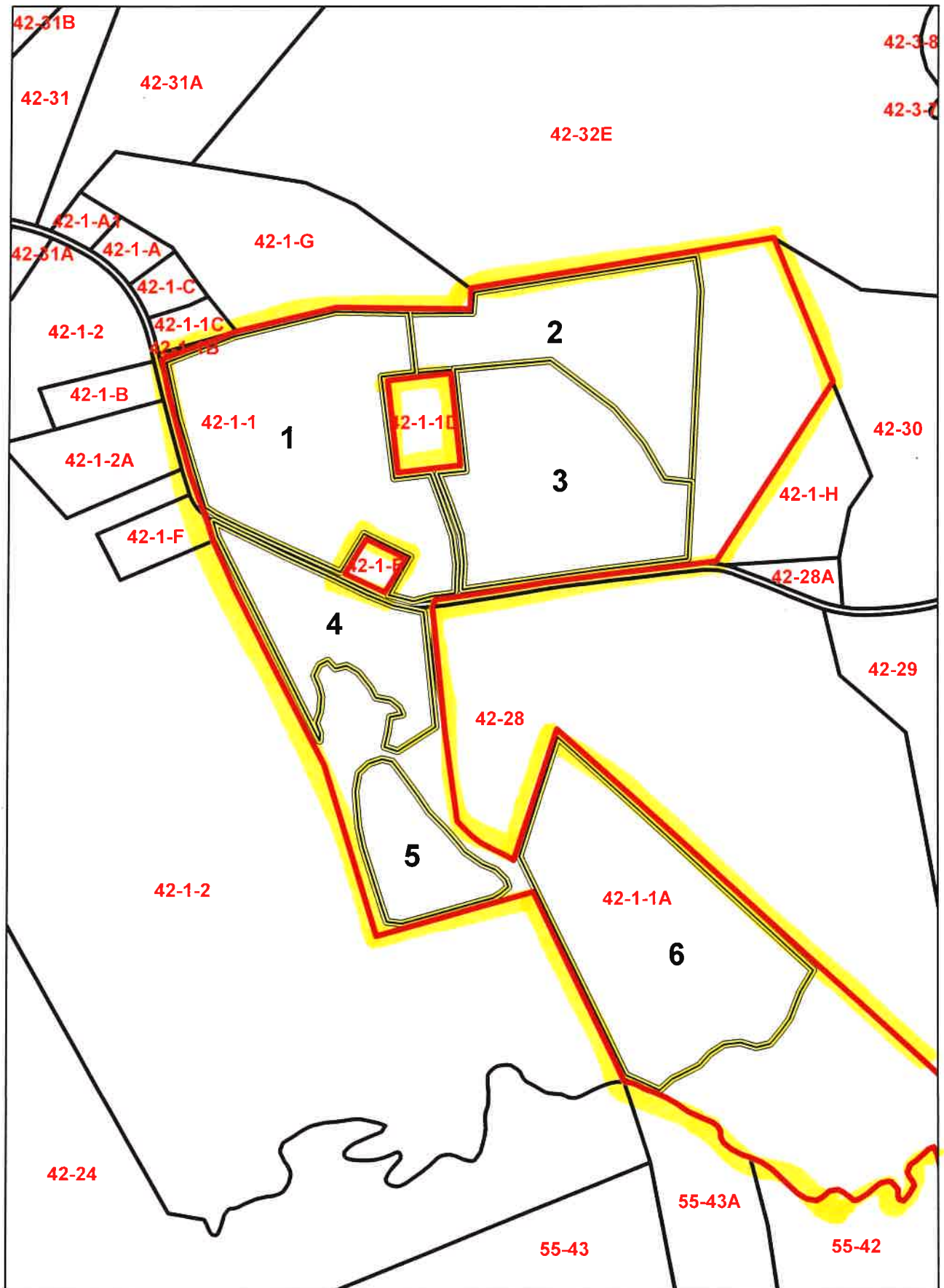
1 in = 1 miles



7-1-20

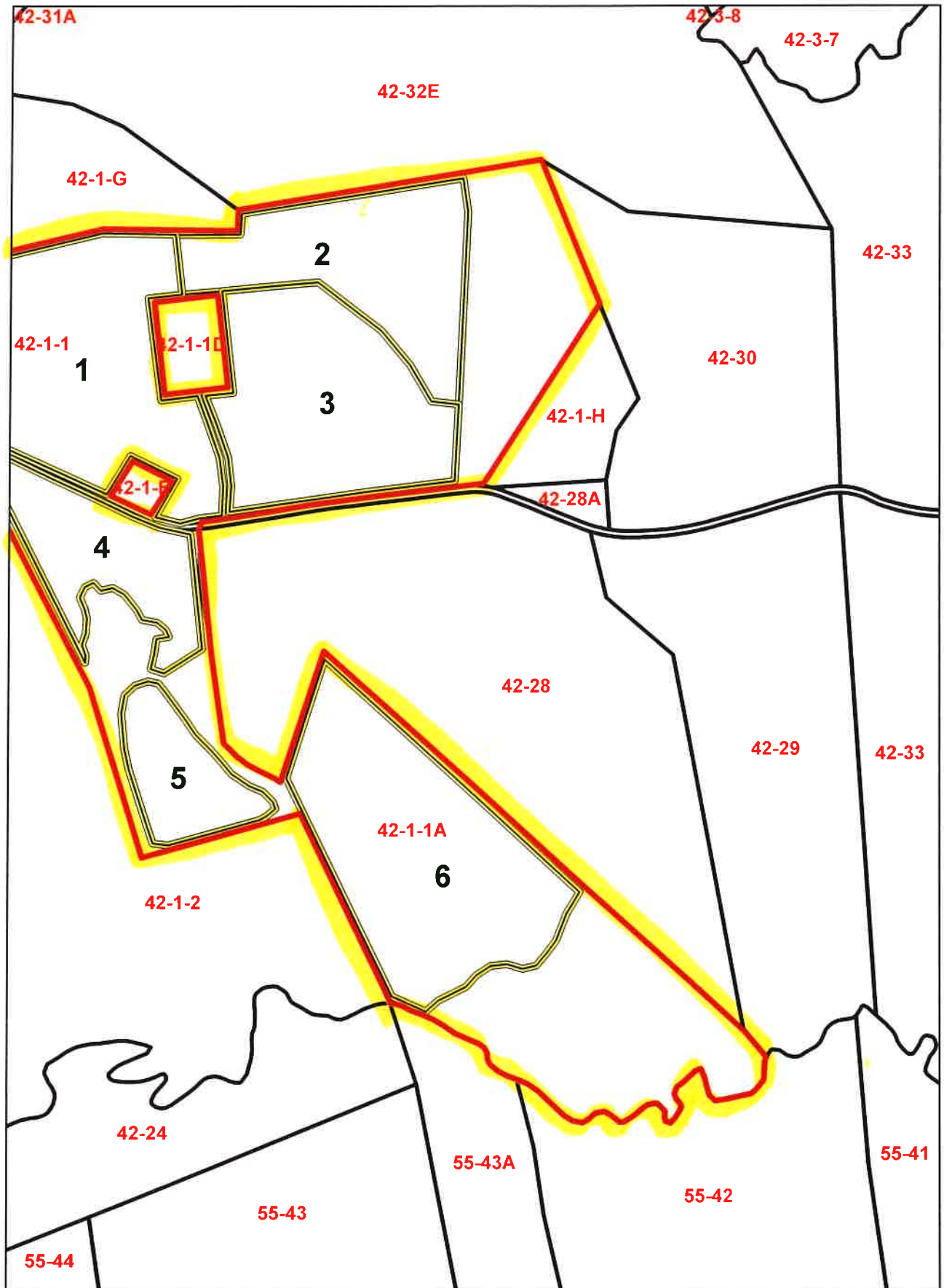
Tax Map

1 in = 833 feet



Tax Map

1 in = 660 feet



7-1-20

Tax Map

1 in = 660 feet

ADJOINING LANDOWNERS

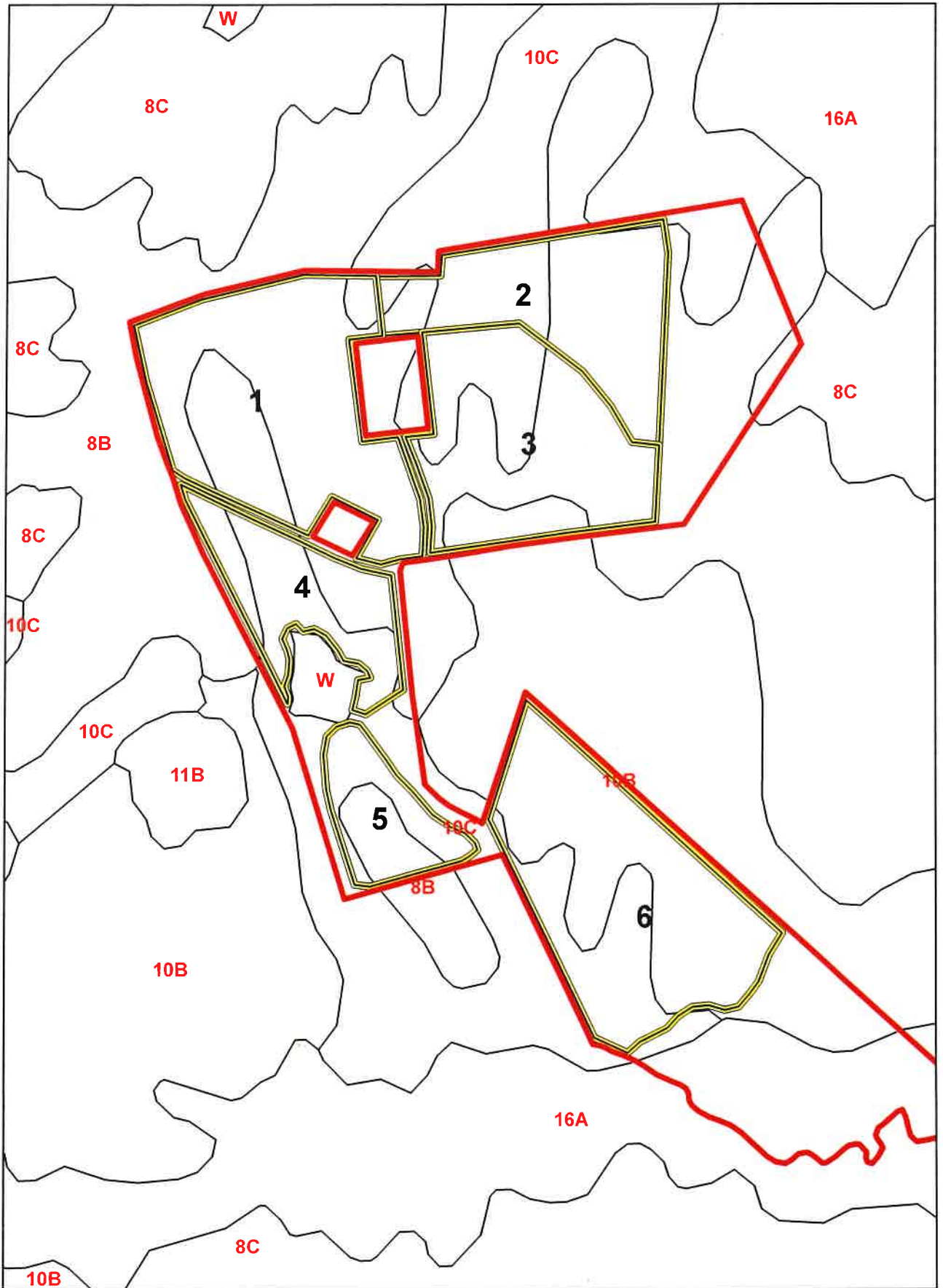
Clifton Clay

Dinwiddie County

Tax Map	Parcel #	Owner Name(s)
42-1	1	Larry E & Jerry W Clay
	B	Louis T Clay
	1C	Larry E & Debbie T Clay
	1D	Brandley G Atkins
	E	John S Clay
	F	Butterwood Farm LLC
	G	Ann B Clay
	2	Louis T & Clyde R Clay
	2A	Louis T & Clyde R Clay
	24	Donna W Brockwell, James S Connelly & Elizabeth S Connelly
	28	John Hardaway Bentley
	29	Mamia S Burton Trustee
	30	Edward G JR & Barbara W Mitchell Trustees
	32E	Brian F Slayden
	42	Carol A Clase
	43A	Franklin L Ashe JR
55		



Clifton S. Clay DWCS



7-1-20
Frequently
Flooded

Soil Map

1 in = 660 feet



7-1-20

Aerial Map

1 in = 660 feet



United States
Department of
Agriculture

Dinwiddie County, Virginia

Farm 4150

Tract 2417

2020 Program Year

Map Created June 03, 2020

Common Land Unit

- Non-Cropland
- Cropland
- Tract Boundary



















Wetland Determination Identifiers

- Restricted Use
- Limited Restrictions
- Exempt from Conservation
- Compliance Provisions

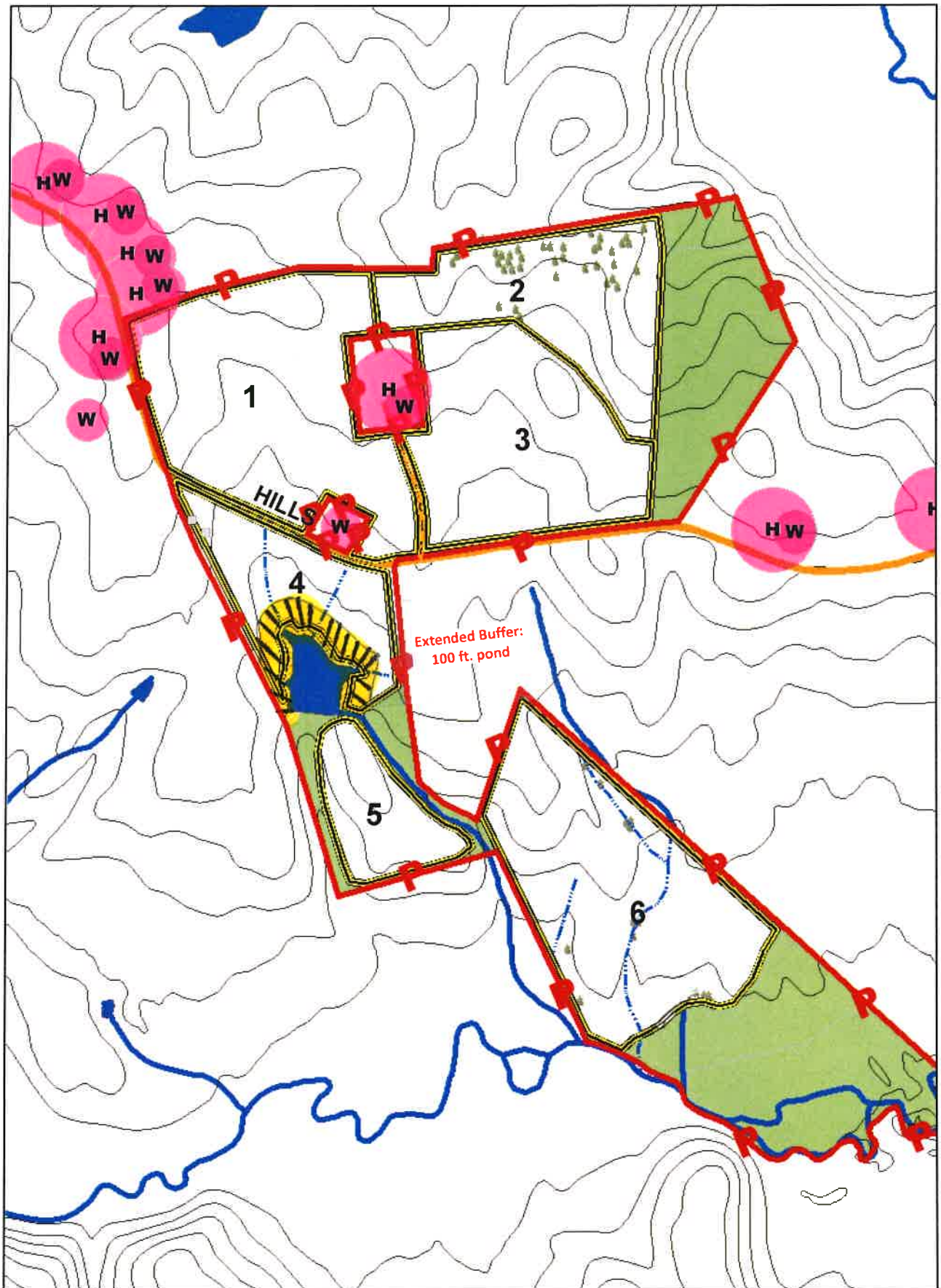
Tract Cropland Total: 119.90 acres

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Legend For Site Plan

Symbol	Feature	Minimum Setback
	House and Well	200 feet from occupied dwelling * 100 feet from water supply wells or springs
 	Well or Spring	100 feet from water supply wells or springs
	Streams or Surface Water	35 feet with 35 foot vegetated buffer 100 feet without vegetated buffer
	Wet Spot	
	Trees and Woods	
	Private Drive	
	Rock Area/Rock Outcrop	25 feet from rock outcrops 50 feet from limestone rock outcrops
	Severely Eroded Spot	18 Inch minimum depth of soil
  	Sink Hole	100 feet from open sinkholes 50 feet from closed sinkholes
	State Road	10 feet from side of roadway
	Fence / Field Boundary	
	Property Line	100 feet from property line *
 	Slope	15% maximum
	Hashed out Area	No application

*Buffer can be reduced or waived upon written consent from landowner.

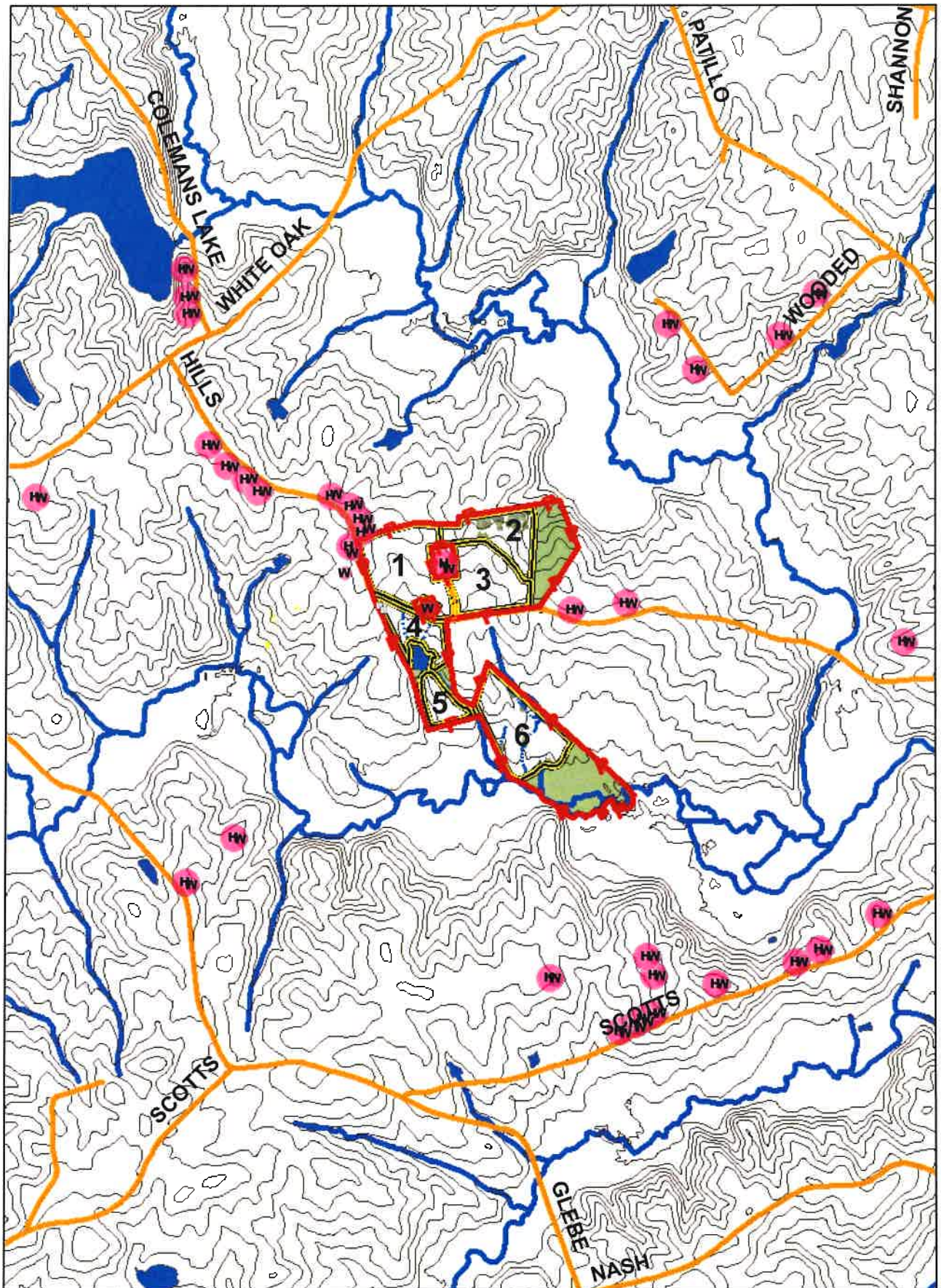


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Site Map

1 in = 660 feet





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